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Quarterly Progress Report

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Title of Investigation : 28990 Investigation of Environmental  
Change Pattern in Japan.

Principal Investigator : Takakazu Maruyasu *etc* E 7.6 - 10.1 7.3  
CR-146373

Sub-title : Investigation of the ecological environment index  
from observation of the regional vegetation cover  
and their growing condition.

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(E76-10173) INVESTIGATION OF ENVIRONMENTAL  
CHANGE PATTERN IN JAPAN: INVESTIGATION OF  
THE ECOLOGICAL ENVIRONMENT INDEX FROM  
OBSERVATION OF THE REGIONAL VEGETATION COVER  
AND THEIR GROWING CONDITION (Science Univ. G3/43

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## Accomplishment

1. Color composit imageries of 6 sets LANDSAT-2 scenes was accomplished and enlarged in 1/200,000 scale for to compare with the past imageries of 1972 and 1973.

The differ area of the vegetation cover and feature between those imageries was finds out mostly clear cutting in forest area and glasscover increasing in swanpy area.

The LANDSAT-2 scenes show much better possibility to forest type classification work than LANDSAT-1.

The test sit area we prepareing in Hokkaido for LANDSAT-2 CCT ADP works.

2. Landcover maps and their application for forest conservation plan by ADP, total 1500 km<sup>2</sup> area of North Kanto was printed out from LANDSAT-1 CCT in 11 categories and 100 m<sup>2</sup> mesh. This work are followed by CCT LANDSAT-2 data perpareing.
3. The investigation for the ecological influence of road construction and soil elosion in forest area was carried out by using the ADP vegetation map of LANDSAT-1 CCT and LANDSAT-2 color composit imageries in Central Japan area. Also air MSS and IR photo survey data was combinated them. As the results of field checking about 85% of forest types and 95% of elosion area was correctly maped and measured with 4 weeks opperation. This research works for forest monitering will be followed as soon as LANDSAT-2 CCT offering.

